AMENDMENTS TO THE CLAIMS

1. (CURRENTLY AMENDED) A network-enabled user interface device, the device including:

a display screen configured for displaying display elements;

a user input interface configured for supplying user inputs;

an interface controller configured for receiving application-based commands for at least one of first operations, second operations, and third operations, the interface controller configured for causing the display screen to display the display elements based on the first operations, configuring the user input interface for selected input operations based on the second operations, and generating application-based responses based on the supplied user inputs and the third operations; and

an application controller configured for communication with executable application operations having generated the application-based commands and selectively transferring the application-based responses to selected ones of the executable application operations, the application controller including a network interface configured for receiving the application-based commands and outputting selected ones of the application-based responses via an open protocol network;

wherein the interface controller further includes:

(1) an extensible markup language (XML) module configured for generating first identifiers specifying the display elements to be displayed and second identifiers specifying the input operations to be performed by the user input interface, based on parsing selected XML documents based on the application-based commands, the selected XML documents configured for specifying the first operations, the second operations and the third operations; and

(2) a graphic user interface (GUI) elements table configured for storing available interface elements including the display elements and input elements, the GUI elements table configured for outputting the identified display elements specified in the first identifier for display on the display screen, and outputting selected input elements selected based on the second identifiers for configuration of the user input interface for the selected input operations.

2. (CURRENTLY AMENDED) The device of claim 1, wherein the interface controller

includes:

a display abstraction interface configured for generating display-specific images for display

of the respective display elements by the display screen; and

an input abstraction interface configured for generating hardware-specific commands for

configuration of the user input interface for the respective selected input operations based on the

input elements selected according to the second commands.

3. (ORIGINAL) The device of claim 2, wherein the interface controller further includes a

message controller configured for receiving the application-based commands as first text strings and

generating the application-based responses as second text strings based on the supplied user inputs

and the third operations, the message controller parsing the first text strings for retrieval of the

application-based commands.

4. (CANCELED).

5. (CURRENTLY AMENDED) The device of claim [[4]] 3, wherein the interface controller

further includes a messaging interface configured for receiving event-based messages specifying

event-based information to be provided to the user, the event-based information including any one

of text information, audible information, text-based information, video information, and graphical

information information.

6. (CURRENTLY AMENDED) The device of claim [[4]] 3, wherein the stored available

interface elements includes menu elements, input elements, text elements, graphic elements, soft key

elements, hardware light elements, and audio speaker elements.

7. (ORIGINAL) The device of claim 1, further comprising a locally-executable resource

configured for generating a first group of the application-based commands, the application controller

configured for identifying a first of the application-based responses as corresponding to the locally-executable resource and in response outputting the first of the application-based responses to the locally-executable resource.

8. (ORIGINAL) The device of claim 7, wherein the open protocol network is an Internet Protocol network.

9. (ORIGINAL) The device of claim 1, further comprising a telephony portion configured for providing Voice over IP based communications via the open protocol network concurrent with the display of the display elements and the selected input operations.

10. (CURRENTLY AMENDED) A method of controlling a display screen and a user input interface of a network-enabled user interface device configured for network-based communications via an open protocol network, the method comprising:

receiving application-based commands for execution of at least one of first operations, second operations, and third operations from at least one of a plurality of executable application operations, at least a first of the executable application operations in communication with the network-enabled user interface device via the open protocol network;

first generating, by an interface controller, selected display elements based on the first operations and selected input operations elements based on the second operations;

causing the display screen to display the selected display elements and the user input interface to execute the selected input operations elements; and

second generating application-based responses based on supplied user inputs to the user input interface based on the selected input operations elements, and based on the third operations;

wherein the interface controller further includes an extensible markup language (XML) module and a graphic user interface (GUI) elements table, the first generating step including:

(1) identifying by the XML module the selected display elements to be displayed and input operations to be performed by the user input interface, based on parsing selected XML documents

based on the application-based commands, the selected XML documents configured for specifying the first operations, the second operation and the third operations; and

(2) outputting from the GUI elements table the selected display elements to be displayed on the display screen, and the selected input operations elements based on the identified input operations for execution of the selected input operations elements by the user input interface.

11. (ORIGINAL) The method of claim 10, wherein:

the receiving step includes receiving multiple groups of application-based commands via the open protocol network from respective servers executing the respective executable application operations; and

the second generating step includes outputting the application-based responses to the respective servers via the open protocol network.

12. (ORIGINAL) The method of claim 10, wherein the interface controller includes a display abstraction interface configured for generating display-specific images and an input abstraction interface configured for generating hardware-specific commands for configuration of the user input interface, the causing step including:

generating selected display-specific images for display of the respective display elements by the display screen; and

generating selected hardware-specific commands for configuration of the user input interface for the respective selected input operations based on input elements selected according to the second commands.

13. (ORIGINAL) The method of claim 12, wherein:

the interface controller further includes a message controller configured for receiving the application-based commands as first text strings;

the receiving step includes parsing the first text strings for retrieval of the application-based commands; and

Amendment filed September 6, 2005 Appln. No. 09/883,211 Page 5 of 13 the second generating step includes generating the application-based responses as second text

strings based on the supplied user inputs and the third commands.

14. (CANCELED).

15. (CURRENTLY AMENDED) The method of claim [[14]] 13, wherein the first

generating step further includes generating event-based information to be provided to the user,

including any one of text information, audible information, text-based information, video

information, and graphical information information, based on receiving an event-based message

specifying the event-based information to be provided to the user.

16. (CURRENTLY AMENDED) The method of claim [[14]] 13, wherein the stored

available interface elements include menu elements, input elements, text elements, graphic elements,

soft key elements, hardware light elements, and audio speaker elements.

17. (ORIGINAL) The method of claim 10, wherein the receiving step includes receiving a

first group of the application-based commands via the open protocol network from respective servers

executing the respective executable application operations, and receiving a second group of the

application-based commands from a locally-executable resource, the second generating step

including outputting the application-based responses to the respective identified executable

application operations.

18. (ORIGINAL) The method of claim 17, wherein the open protocol network is an Internet

Protocol network.

19. (ORIGINAL) The method of claim 10, further comprising providing voice over IP based

communications via the open protocol network concurrent with the display of the display elements

and the selected input operations.

20. (CURRENTLY AMENDED) A computer readable medium having stored thereon

sequences of instructions for controlling a display screen and a user input interface of a

network-enabled user interface device, configured for network-based communications via an open

protocol network, the sequences of instructions including instructions for performing the steps of:

receiving application-based commands for execution of at least one of first operations,

second operations, and third commands from at least one of a plurality of executable application

operations, at least a first of the executable application operations in communication with the

network-enabled user interface device via the open protocol network;

first generating, by an interface controller, selected display elements based on the first

operations and selected input operations elements based on the second operations;

causing the display screen to display the selected display elements and the user input interface

to execute the selected input operations elements; and

second generating application-based responses based on supplied user inputs to the user input

interface based on the selected input operations elements, and based on the third operations;

wherein the interface controller further includes an extensible markup language (XML)

module and a graphic user interface (GUI) elements table, the first generating step including:

(1) identifying by the XML module the selected display elements to be displayed and input

operations to be performed by the user input interface, based on parsing selected XML documents

based on the application-based commands, the selected XML documents configured for specifying

the first operations, the second operation and the third operations; and

(2) outputting from the GUI elements table the selected display elements to be displayed on

the display screen, and the selected input operations elements based on the identified input

operations for execution of the selected input operations elements by the user input interface.

21. (ORIGINAL) The medium of claim 20, wherein:

the receiving step includes receiving multiple groups of application-based commands via the open protocol network from respective servers executing the respective executable application operations; and

the second generating step includes outputting the application-based responses to the respective servers via the open protocol network.

22. (ORIGINAL) The medium of claim 20, wherein the interface controller includes a display abstraction interface configured for generating display-specific images and an input abstraction interface configured for generating hardware-specific commands for configuration of the user input interface, the causing step including:

generating selected display-specific images for display of the respective display elements by the display screen; and

generating selected hardware-specific commands for configuration of the user input interface for the respective selected input operations based on input elements selected according to the second commands.

23. (ORIGINAL) The medium of claim 22, wherein:

the interface controller further includes a message controller configured for receiving the application-based commands as first text strings;

the receiving step includes parsing the first text strings for retrieval of the application-based commands; and

the second generating step includes generating the application-based responses as second text strings based on the supplied user inputs and the third commands.

24. (CANCELED).

25. (CURRENTLY AMENDED) The medium of claim [[24]] 23, wherein the first generating step further includes generating event-based information to be provided to the user,

including any one of text information, audible information, text-based information, video

information, and graphical information, based on receiving an event-based message specifying the

event-based information to be provided to the user.

26. (CURRENTLY AMENDED) The medium of claim [[24]] 23, wherein the stored

available interface elements include menu elements, input elements, text elements, graphic elements,

soft key elements, hardware light elements, and audio speaker elements.

27. (ORIGINAL) The medium of claim 20, wherein the receiving step includes receiving

a first group of the application-based commands via the open protocol network from respective

servers executing the respective executable application operations, and receiving a second group of

the application-based commands from a locally-executable resource, the second generating step

including outputting the application-based responses to the respective identified executable

application operations.

28. (ORIGINAL) The medium of claim 27, wherein the open protocol network is an Internet

Protocol network.

29. (ORIGINAL) The medium of claim 20, further comprising instructions for performing

the step of providing voice over IP based communications via the open protocol network concurrent

with the display of the display elements and the selected input operations.

30. (CURRENTLY AMENDED) A network-enabled user interface device having a display

screen and a user input interface and configured for network-based communications via an open

protocol network, the device further comprising:

means for receiving application-based commands for execution of at least one of first

operations, second operations, and third operations from at least one of a plurality of executable

application operations, at least a first of the executable application operations in communication with

the network-enabled user interface device via the open protocol network;

means for first generating, by an interface controller, selected display elements based on the

first operations and selected input operations elements based on the second operations;

means for causing the display screen to display the selected display elements and the user

input interface to execute the selected input operations elements; and

means for second generating application-based responses based on supplied user inputs to

the user input interface based on the selected input operations elements, and based on the third

operations;

wherein the interface controller further includes an extensible markup language (XML)

module and a graphic user interface (GUI) elements table, the means for first generating configured

<u>for:</u>

(1) identifying by the XML module the selected display elements to be displayed and input

operations to be performed by the user input interface, based on parsing selected XML documents

based on the application-based commands, the selected XML documents configured for specifying

the first operations, the second operation and the third operations; and

(2) outputting from the GUI elements table the selected display elements to be displayed on

the display screen, and the selected input operations elements based on the identified input

operations for execution of the selected input operations elements by the user input interface.

31. (ORIGINAL) The device of claim 30, wherein:

the receiving means is configured for receiving multiple groups of application-based

commands via the open protocol network from respective servers executing the respective executable

application operations; and

the second generating means is configured for outputting the application-based responses to

the respective servers via the open protocol network.

32. (ORIGINAL) The device of claim 30, wherein the interface controller includes a display

abstraction interface configured for generating display-specific images and an input abstraction

interface configured for generating hardware-specific commands for configuration of the user input

interface, the causing means configured for:

generating selected display-specific images for display of the respective display elements by

the display screen; and

generating selected hardware-specific commands for configuration of the user input interface

for the respective selected input operations based on input elements selected according to the second

commands.

33. (ORIGINAL) The device of claim 32, wherein:

the interface controller further includes a message controller configured for receiving the

application-based commands as first text strings;

the receiving means is configured for parsing the first text strings for retrieval of the

application-based commands; and

the second generating means is configured for generating the application-based responses as

second text strings based on the supplied user inputs and the third commands.

34. (CANCELED).

35. (CURRENTLY AMENDED) The device of claim [[34]] 33, wherein the first generating

means is configured for generating event-based information to be provided to the user, including any

one of text information, audible information, text-based information, video information, and

graphical information information, based on receiving an event-based message specifying the

event-based information to be provided to the user.

36. (CURRENTLY AMENDED) The device of claim [[34]] 33, wherein the stored available

interface elements include menu elements, input elements, text elements, graphic elements, soft key

elements, hardware light elements, and audio speaker elements.

37. (ORIGINAL) The device of claim 30, wherein the receiving means is configured for

receiving a first group of the application-based commands via the open protocol network from

respective servers executing the respective executable application operations, and receiving a second

group of the application-based commands from a locally-executable resource, the second generating

means configured for outputting the application-based responses to the respective identified

executable application operations.

38. (ORIGINAL) The device of claim 37, wherein the open protocol network is an Internet

Protocol network.

39. (ORIGINAL) The device of claim 30, further comprising means for providing voice over

IP based communications via the open protocol network concurrent with the display of the display

elements and the selected input operations.